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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/690,591	10/18/2000	Naomasa Shiraishi	107629	2556
25944	7590 08/06/2003			
OLIFF & BERRIDGE, PLC P.O. BOX 19928			EXAMINER	
			BROWN, KHALED	
ALEXANDRIA, VA 22320				
		•	ART UNIT	PAPER NUMBER
			2877	<u> </u>
•			DATE MAILED: 08/06/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application N .	Applicant(s)			
Office Action Commons	09/690,591	SHIRAISHI, NAOMASA			
Office Action Summary	Examiner	Art Unit			
T. MAN NO DATE (4)	Khaled Brown	2877			
The MAILING DATE of this c mmunication appears n the cover sheet with the correspondenc address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status					
1)⊠ Responsive to communication(s) filed on <u>04 April 2003</u> .					
	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 4,5,12 and 16-45 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>4,5,12 and 24-31</u> is/are allowed.					
6)⊠ Claim(s) <u>16,20,32 and 43-45</u> is/are rejected.					
7) Claim(s) <u>17-19,21-23 and 33-42</u> is/are objected					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers					
9)☐ The specification is objected to by the Examiner	·.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. So	ee 37 CFR 1.85(a).			
11) The proposed drawing correction filed on	is: a) approved b) disappro	oved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6	5) Notice of Informal F	r (PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 45 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 45 depends from canceled claim 1 and is therefore indefinite.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 16,20, 32, 43-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koizumi et al (US 4704348) in view of McCullough et al (US 5973764).

Re clms 16,20, 32, 43, 44: Koizumi et al discloses an exposure method comprising; enclosing a first space (space enclosed by 45), of spaces between the projection system (42) and the second object (39), supplying a gas into the enclosure member from a supply port (46) provided in the enclosure member and exhausting the gas from a second aperture (bottom aperture of 45). However

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Koizumi et al does not disclose an enclosure member in which a first aperture is formed in a region in which the exposure beam is transmitted. McCullough et al discloses an enclosure member in which a first aperture is formed in a region in which the exposure beam is transmitted to keep projection lens clean (Fig 1). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the enclosure member in which a first aperture is formed in a region in which the exposure beam is transmitted of McCullough et al into the exposure apparatus of Koizumi et al because it would keep the projection lens clean.

Allowable Subject Matter

Claims 4,5, 12, 24-31 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art fails to disclose or suggest the differential exhaust system, a chamber that hermetically seals, second object being enclosed in the enclosure member all in conjunction with the rest of the claimed subject matter.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claims 17-19, 21-23 and 33-42 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The following is a statement of reasons for the indication of allowable subject matter: the prior art of record fails to disclose the claimed structure including the position of the second aperture.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Economou et al 5103102, Thomas et al 5087927 and Mulkens et al 6538716.

Response to Arguments

Applicant's arguments with respect to all currently pending claims have been considered but are most in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be



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calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khaled Brown whose telephone number is 703-306-5738. The examiner can normally be reached on M-F 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on 703-308-4881. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1782.

KB July 28, 2003

Frank Font

Supervisory Patent Examiner

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